



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name -----Oil Trust Fund
Sample Collection Date(s)-- 07/15/10
Contact----- Rich Mayer (6PD-F)
Report Date-----07/21/10
Project #----- 10REG204
Work Order(s)-----1007024

Analyses included in this report:

LC DOSS

Report Narrative

Sample 1007024-11 was re-extracted due to surrogate failure. Only the re-extraction result (1007024-11RE1) is reported.

No DOSS was found at or above the reporting limit in any of the samples.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund

Project Number: 10REG204

Data Management Coordinator: Christy Warren

Data Management Coordinator Signature

Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T005-0010-100715-SW-1	1007024-01	Liquid	7/15/10 9:30	07/16/10 09:35
T005-0011-100715-SW-1	1007024-02	Liquid	7/15/10 10:05	07/16/10 09:35
T005-0012-100715-SW-1	1007024-03	Liquid	7/15/10 10:40	07/16/10 09:35
T005-0012-100715-SW-2	1007024-04	Liquid	7/15/10 10:40	07/16/10 09:35
T005-0013-100715-SW-1	1007024-05	Liquid	7/15/10 11:10	07/16/10 09:35
T005-0014-100715-SW-1	1007024-06	Liquid	7/15/10 11:40	07/16/10 09:35
T005-0015-100715-SW-1	1007024-07	Liquid	7/15/10 12:10	07/16/10 09:35
T007-0008-100715-SW-1	1007024-08	Liquid	7/15/10 10:25	07/16/10 09:35
T007-1328-100715-SW-1	1007024-09	Liquid	7/15/10 8:50	07/16/10 09:35
T007-1332-100715-SW-1	1007024-10	Liquid	7/15/10 9:40	07/16/10 09:35
T007-BG02-100715-SW-1	1007024-11	Liquid	7/15/10 11:55	07/16/10 09:35
T001-2415-100715-SW-1	1007024-12	Liquid	7/15/10 13:15	07/16/10 09:35
T001-SW01-100715-SW-1	1007024-13	Liquid	7/15/10 12:00	07/16/10 09:35
T001-SW01-100715-SW-D	1007024-14	Liquid	7/15/10 12:00	07/16/10 09:35
T001-SW02-100715-SW-1	1007024-15	Liquid	7/15/10 11:00	07/16/10 09:35
T001-SW03-100715-SW-1	1007024-16	Liquid	7/15/10 10:15	07/16/10 09:35



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DOSS by LC/MS/MS

Lab ID: 1007024-01

Station ID: T005-0010-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	155		85.4	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diocetyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-02

Station ID: T005-0011-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	136		74.9	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-03

Station ID: T005-0012-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	142		81.7	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-04

Station ID: T005-0012-100715-SW-2

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	120		69.0	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-05

Station ID: T005-0013-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	157		90.2	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-06

Station ID: T005-0014-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	132		75.6	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-07

Station ID: T005-0015-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	144		82.7	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-08

Station ID: T007-0008-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	145		83.5	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-09

Station ID: T007-1328-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	153		87.9	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-10

Station ID: T007-1332-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	150		86.2	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-11RE1

Station ID: T007-BG02-100715-SW-1

Batch: B0G1901

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	136		78.1	50-150	07/19/10	07/19/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/19/10	07/19/10

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DOSS by LC/MS/MS

Lab ID: 1007024-12

Station ID: T001-2415-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 24 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	144		86.1	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-13

Station ID: T001-SW01-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	152		87.2	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-14

Station ID: T001-SW01-100715-SW-D

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	154		88.6	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-15

Station ID: T001-SW02-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	150		86.5	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/16/10	07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007024-16

Station ID: T001-SW03-100715-SW-1

Batch: B0G1603

Date Collected: 07/15/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	151		86.8	50-150	07/16/10	07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/16/10	07/17/10

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DOSS by LC/MS/MS - Quality Control

Batch: B0G1603

Sample Type: Liquid

Blank (B0G1603-BLK1)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	165		200	82.4 50-150

Blank (B0G1603-BLK1)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	U		20.0		

LCS (B0G1603-BS1)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	167		200	83.5 50-150

LCS (B0G1603-BS1)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	110		20.0	101	109 50-150	



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DOSS by LC/MS/MS - Quality Control

Batch: B0G1603

Sample Type: Liquid

Matrix Spike (B0G1603-MS1)

Source: 1007024-01

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	138		174	79.1 50-150

Matrix Spike (B0G1603-MS1)

Source: 1007024-01

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	94.4		20.0	87.8	U	107 50-150	

Matrix Spike (B0G1603-MS2)

Source: 1007024-15

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	137		167	82.3 50-150

Matrix Spike (B0G1603-MS2)

Source: 1007024-15

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	91.4		19.6	84.2	U	109 50-150	



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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DOSS by LC/MS/MS - Quality Control

Batch: B0G1603

Sample Type: Liquid

Matrix Spike Dup (B0G1603-MSD1)

Source: 1007024-01

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	140		174	80.5 50-150

Matrix Spike Dup (B0G1603-MSD1)

Source: 1007024-01

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	92.9		20.0	87.8	U	106 50-150	1.64 30

Matrix Spike Dup (B0G1603-MSD2)

Source: 1007024-15

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	136		174	78.3 50-150

Matrix Spike Dup (B0G1603-MSD2)

Source: 1007024-15

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	95.6		20.0	87.8	U	109 50-150	4.52 30



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DOSS by LC/MS/MS - Quality Control

Batch: B0G1901

Sample Type: Liquid

Blank (B0G1901-BLK1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	136		200	68.1 50-150

Blank (B0G1901-BLK1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	U		20.0		

LCS (B0G1901-BS1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	139		200	69.5 50-150

LCS (B0G1901-BS1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	102		20.0	101	101 50-150	



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Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.